

FIG. 1
(PRIOR ART)

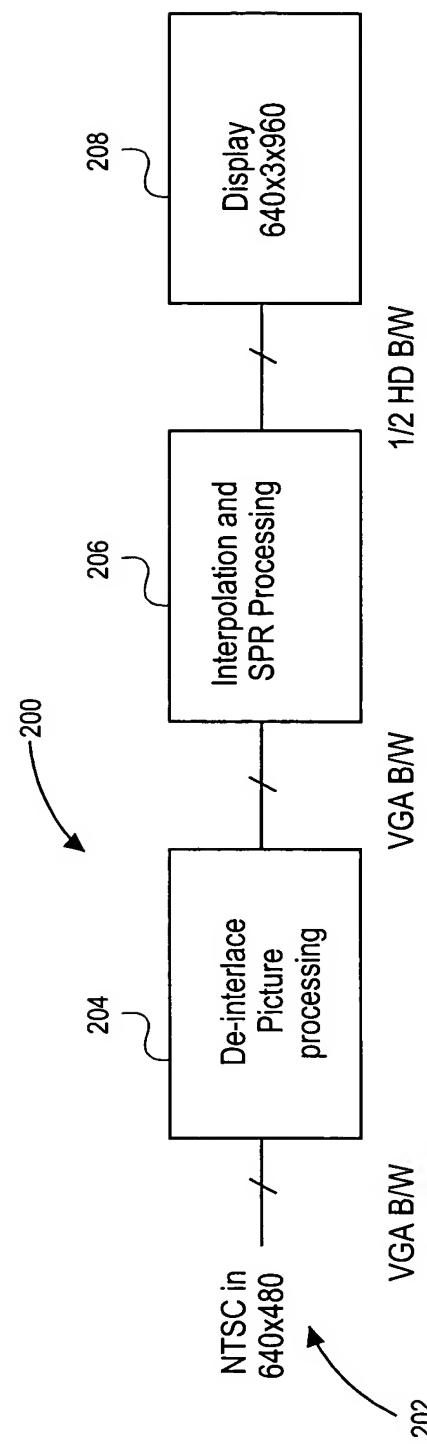
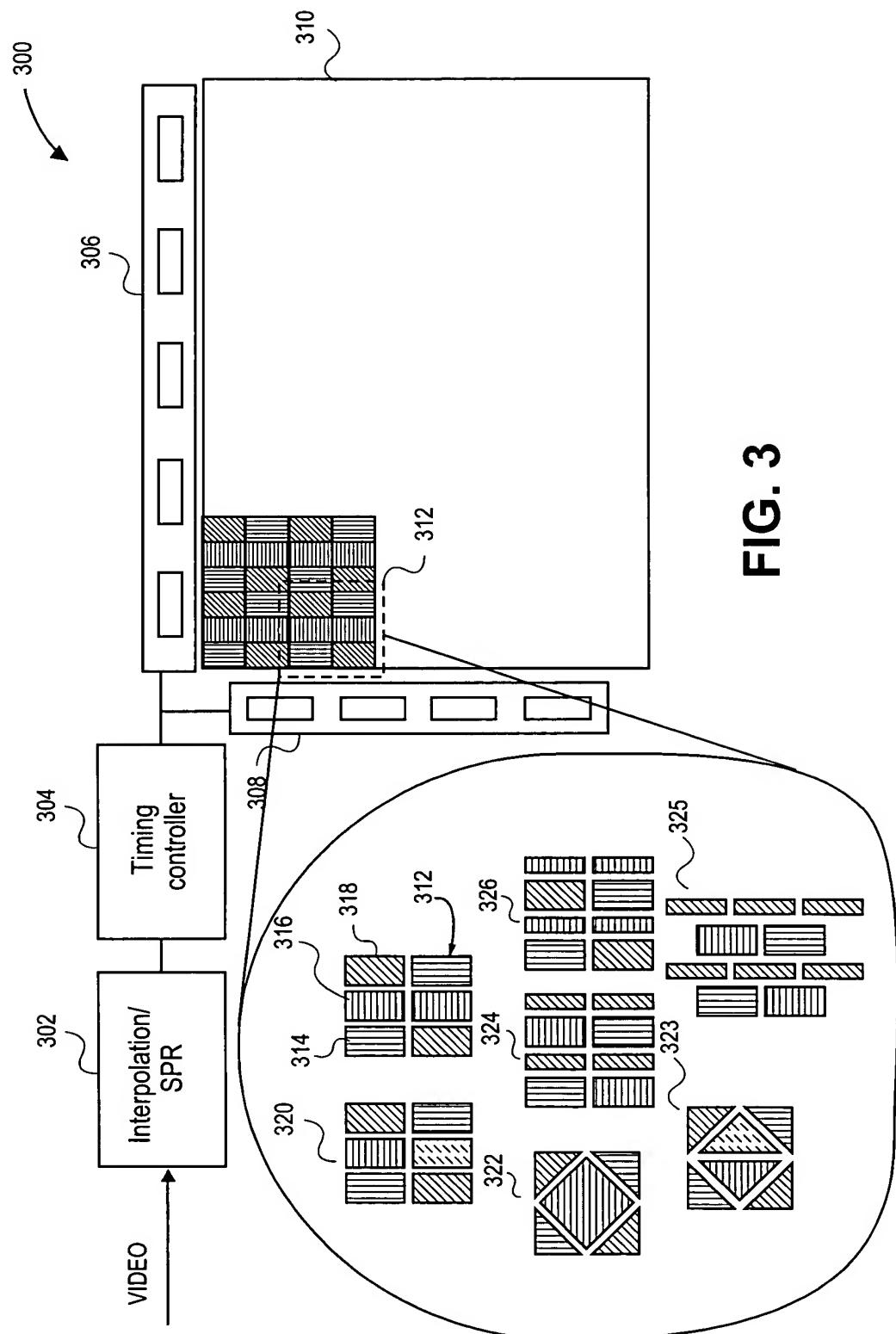


FIG 2



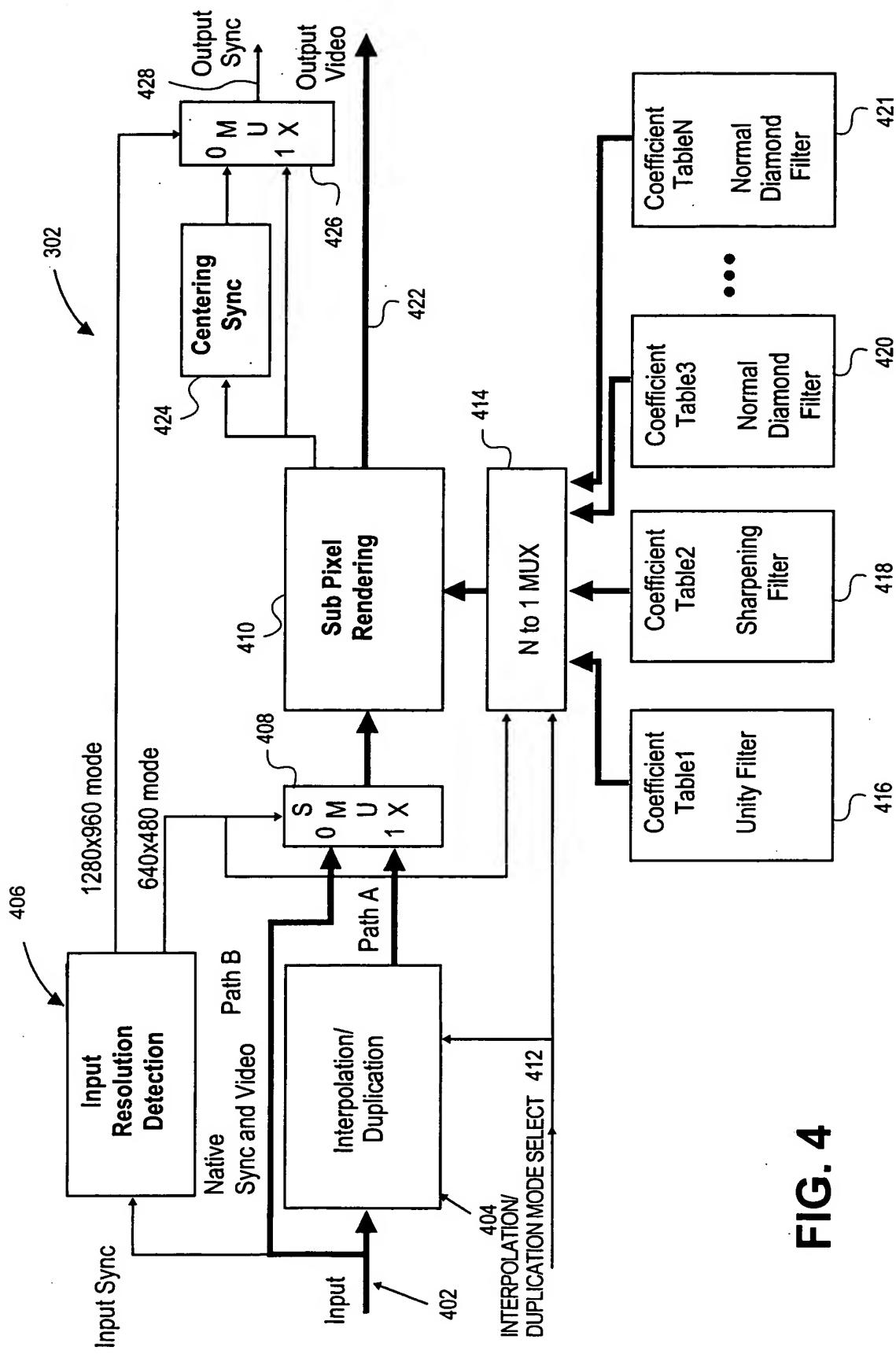


FIG. 4

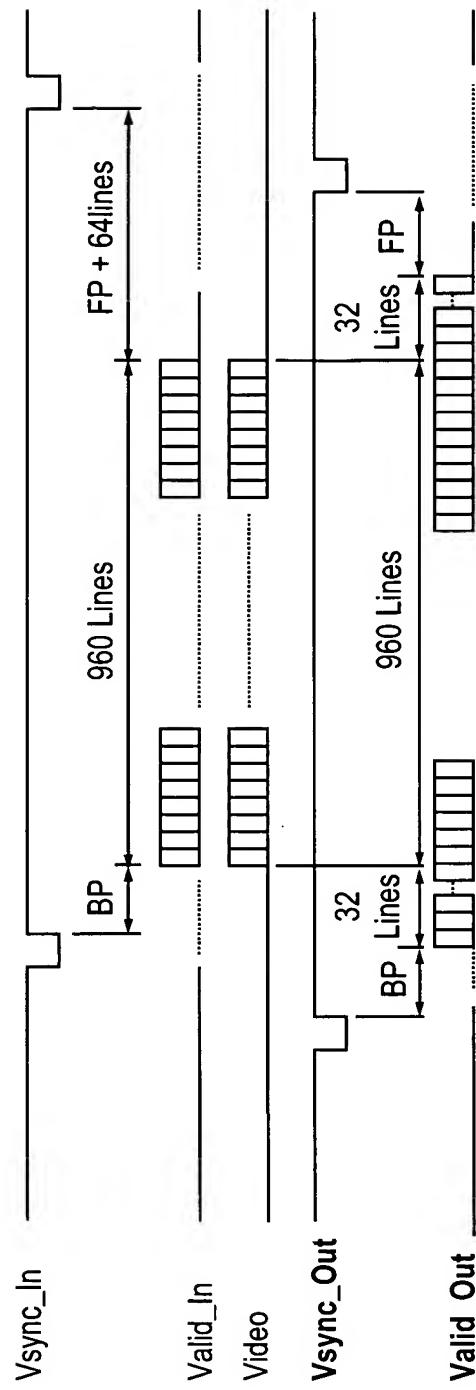


FIG. 5

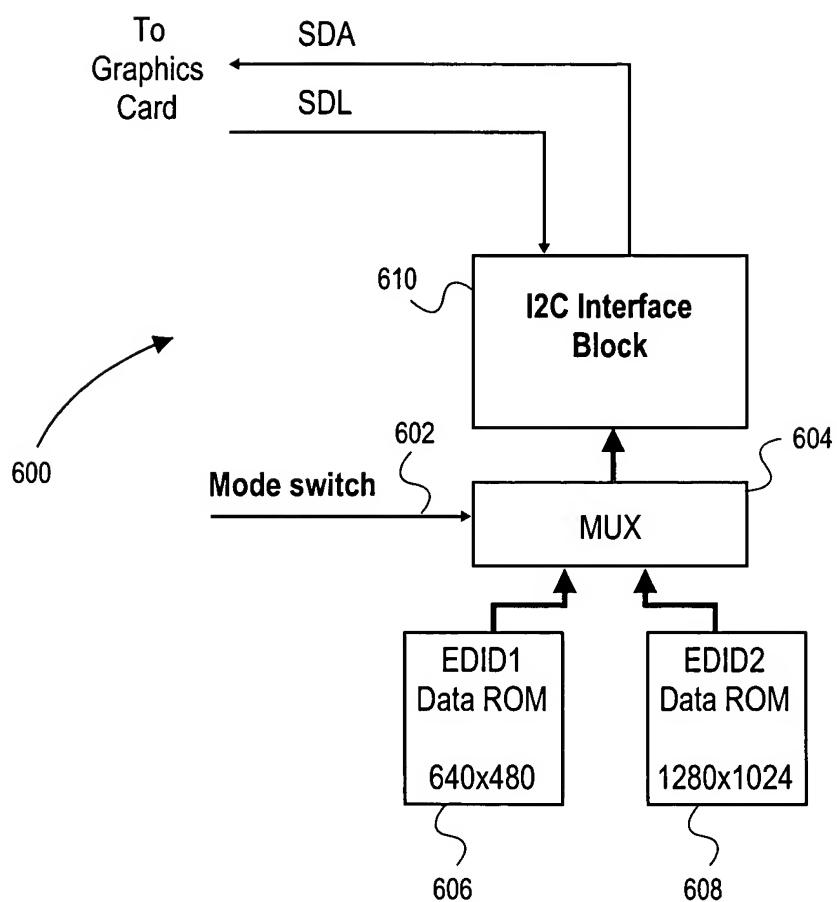
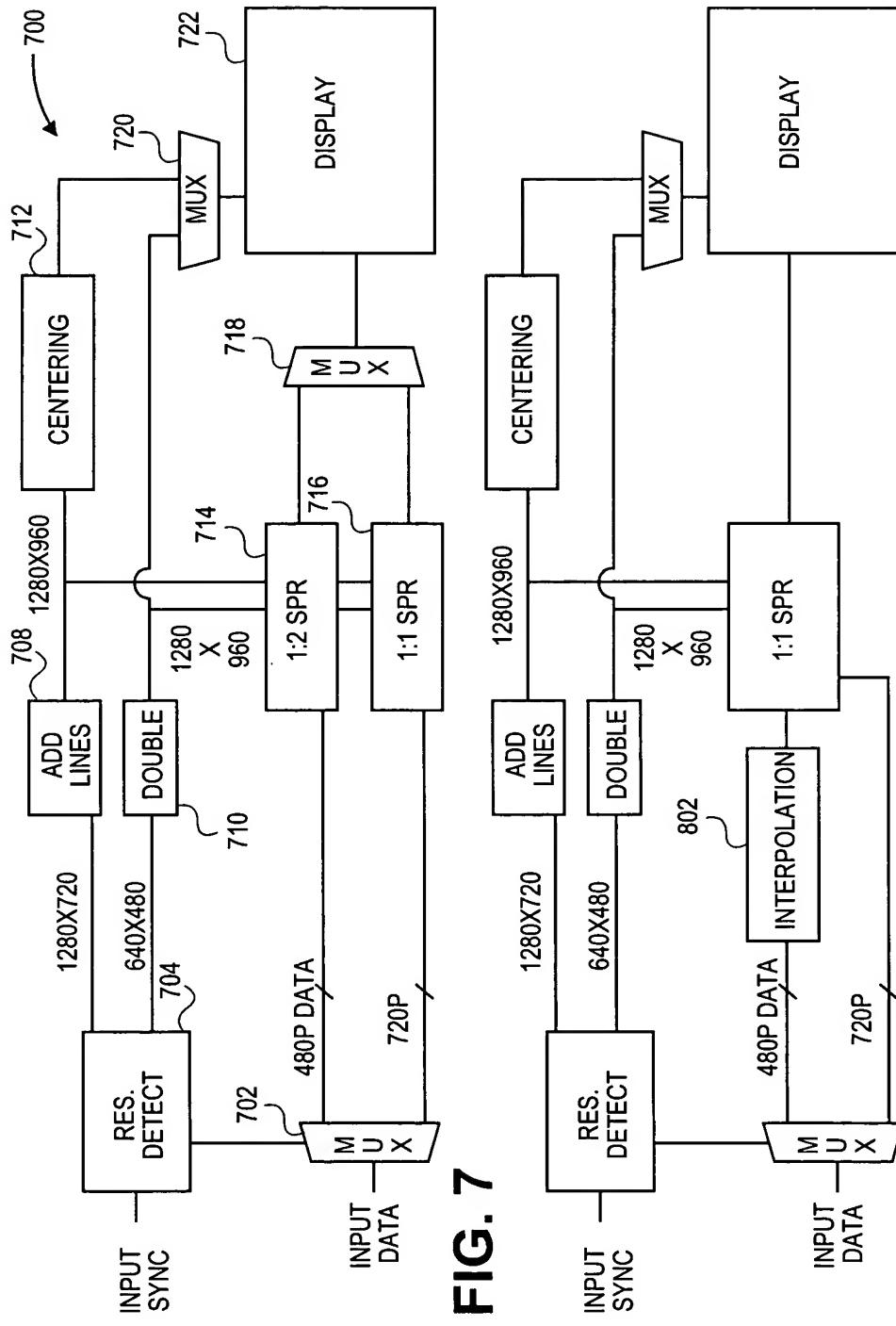


FIG. 6



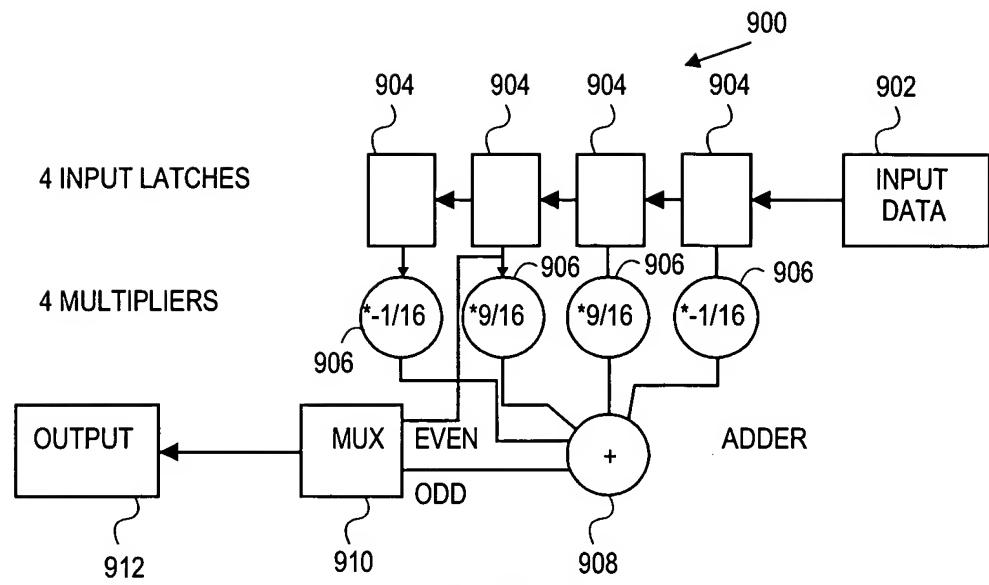


FIG. 9

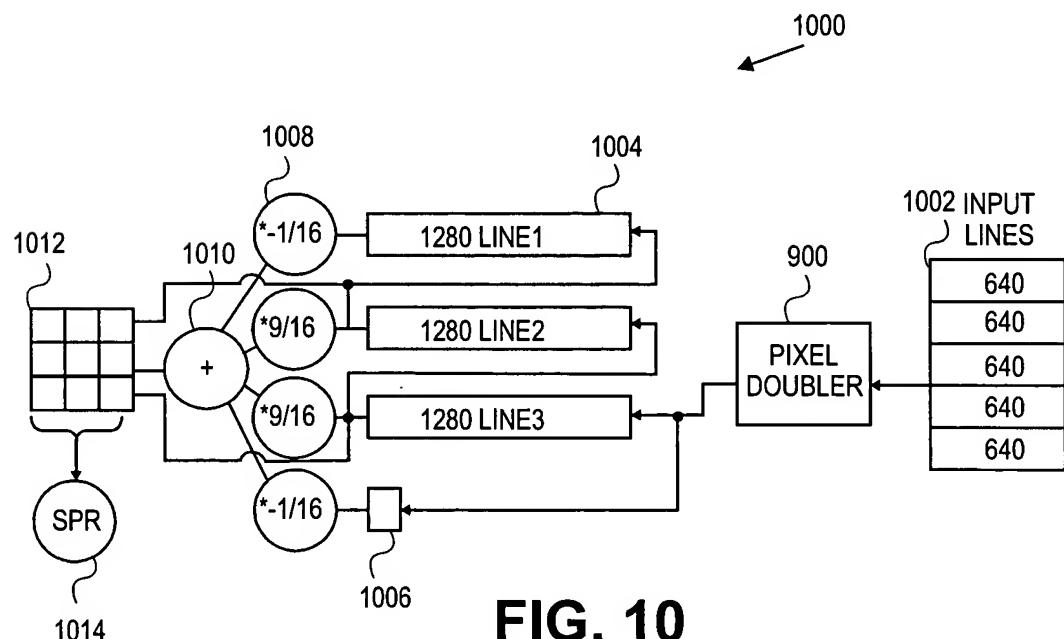


FIG. 10

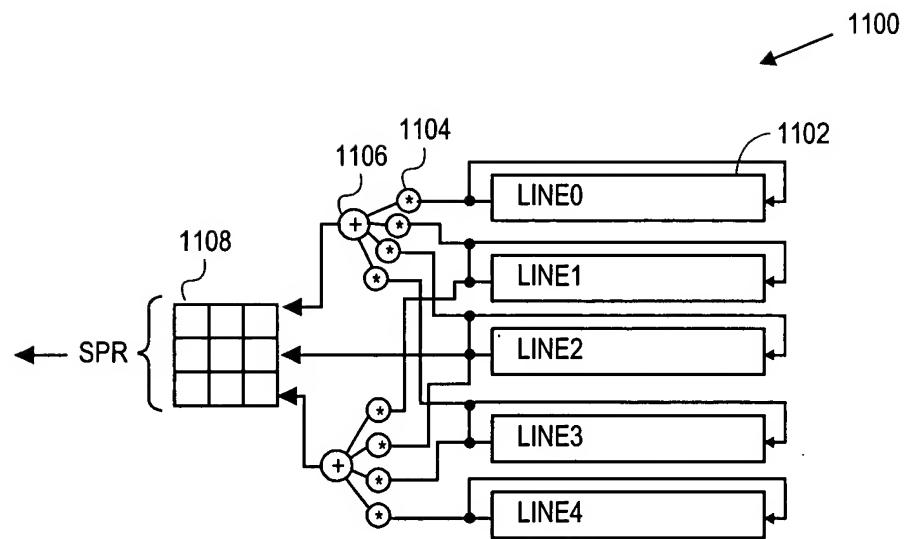


FIG. 11

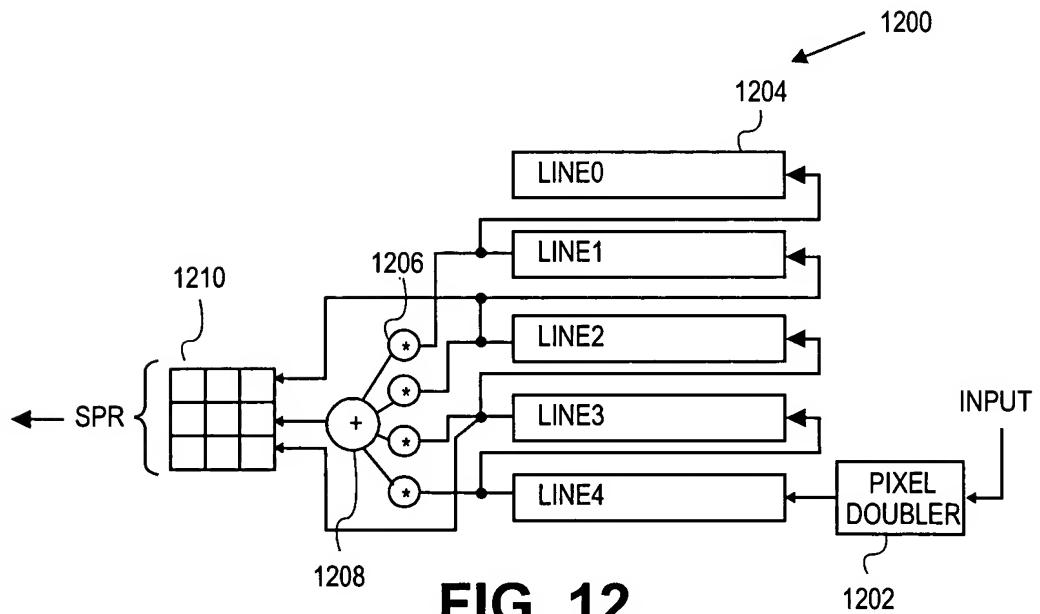


FIG. 12

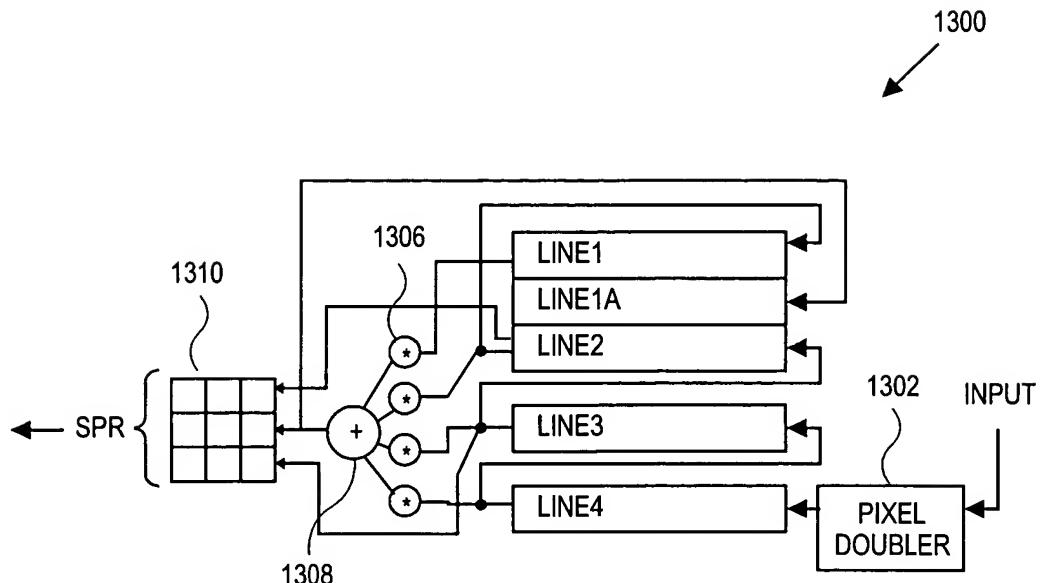


FIG. 13

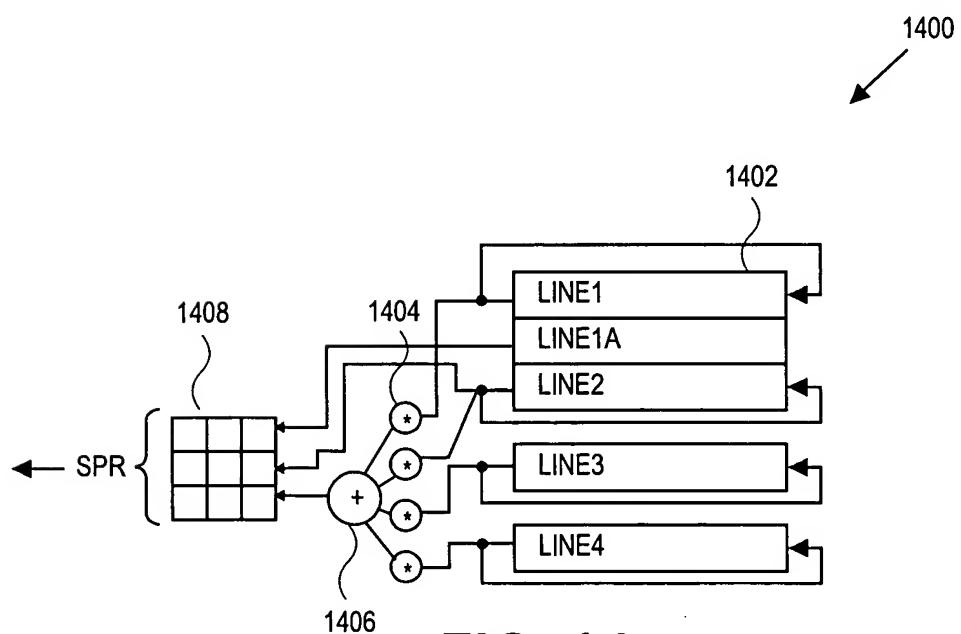


FIG. 14

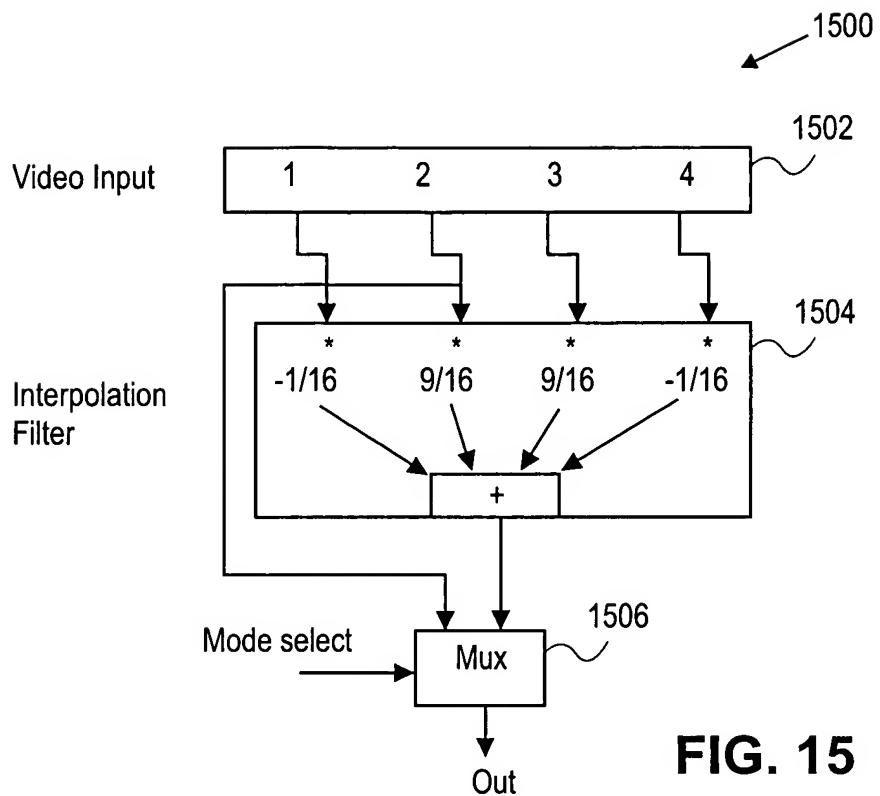


FIG. 15

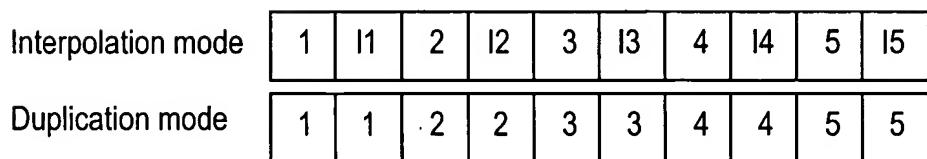


FIG. 16

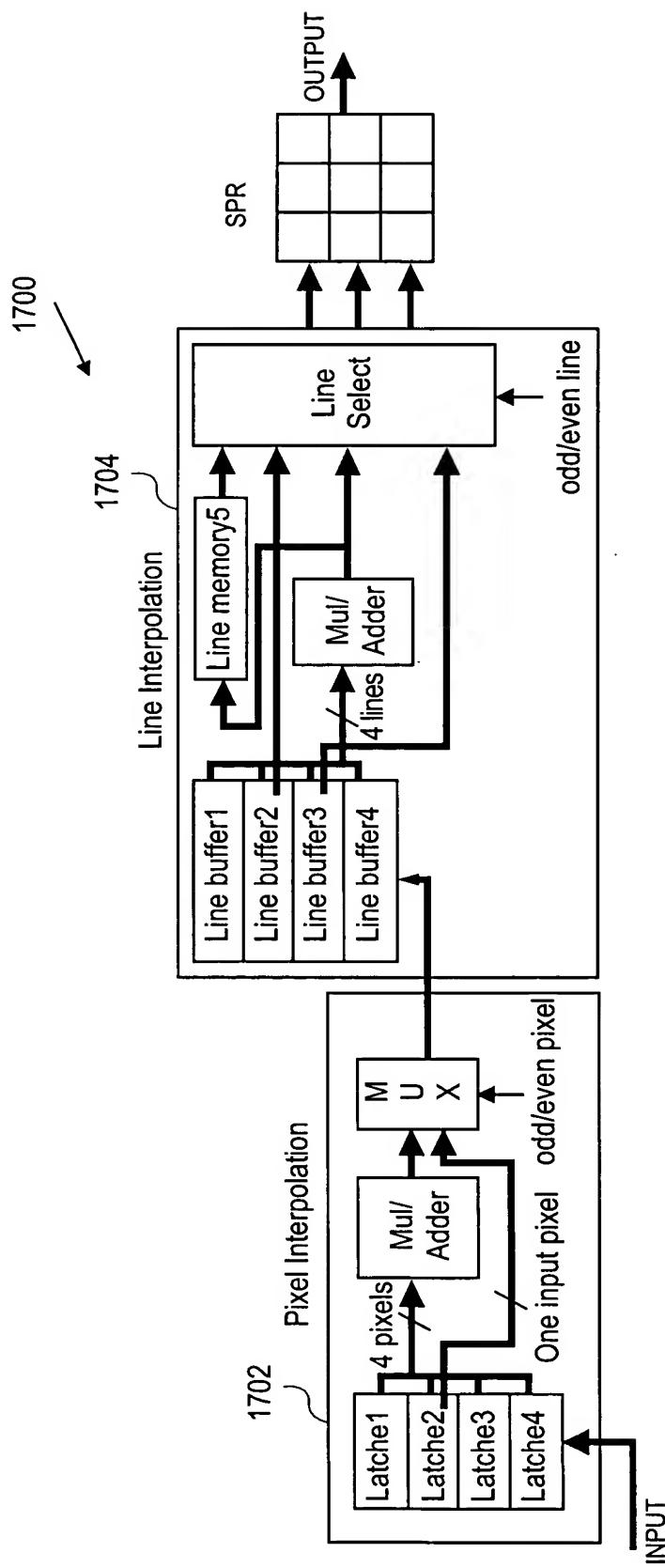


FIG. 17

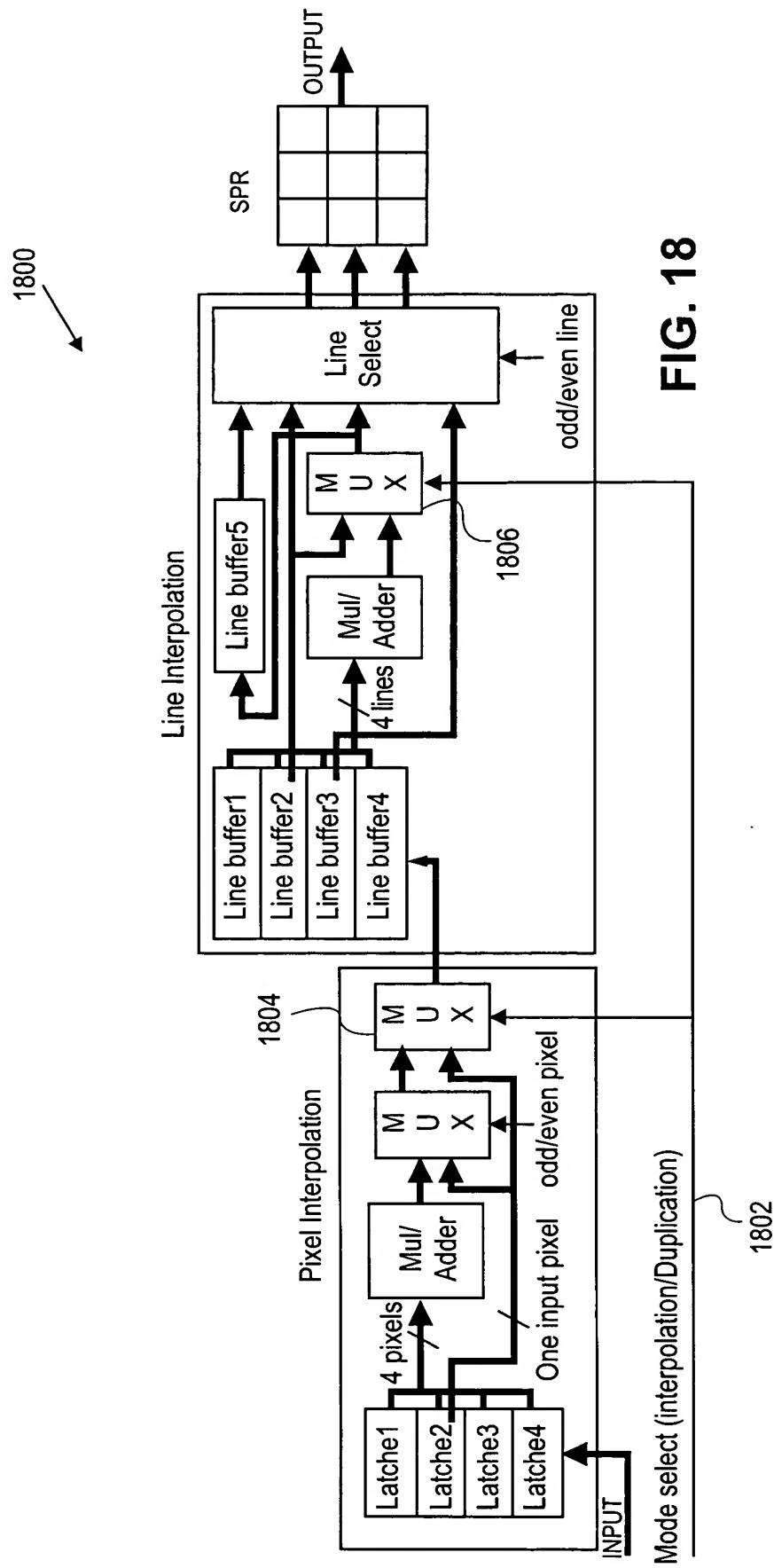


FIG. 18

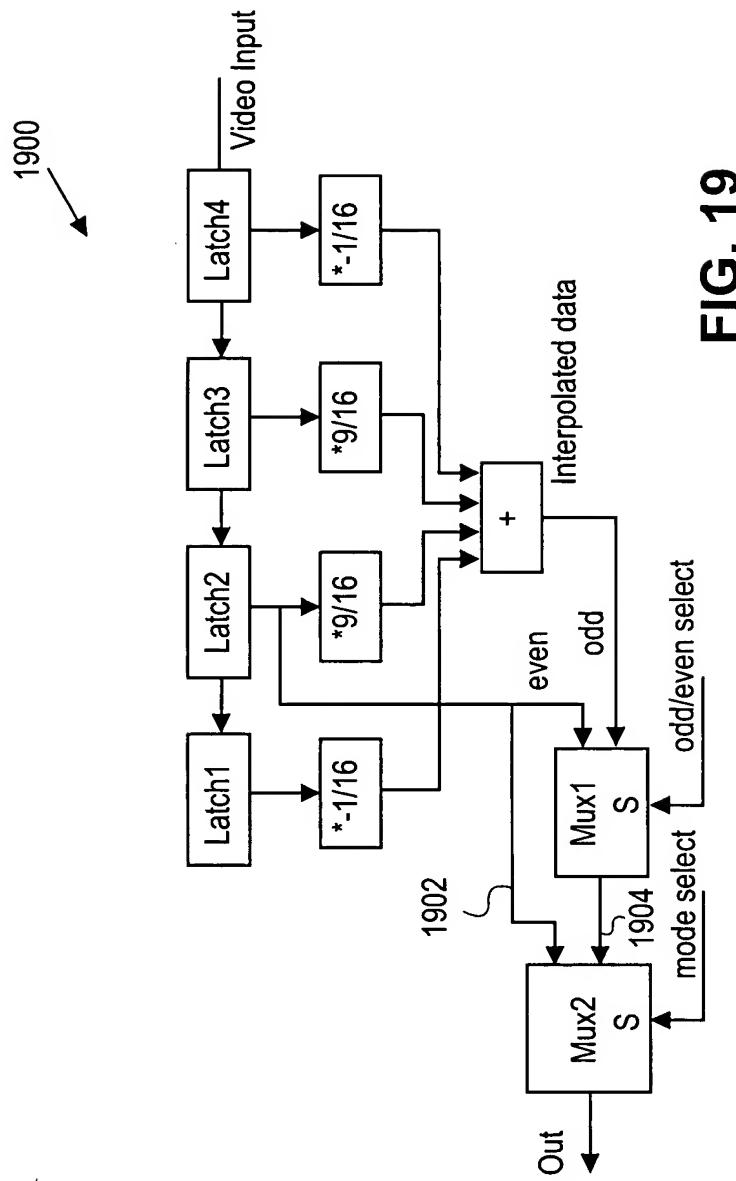


FIG. 19

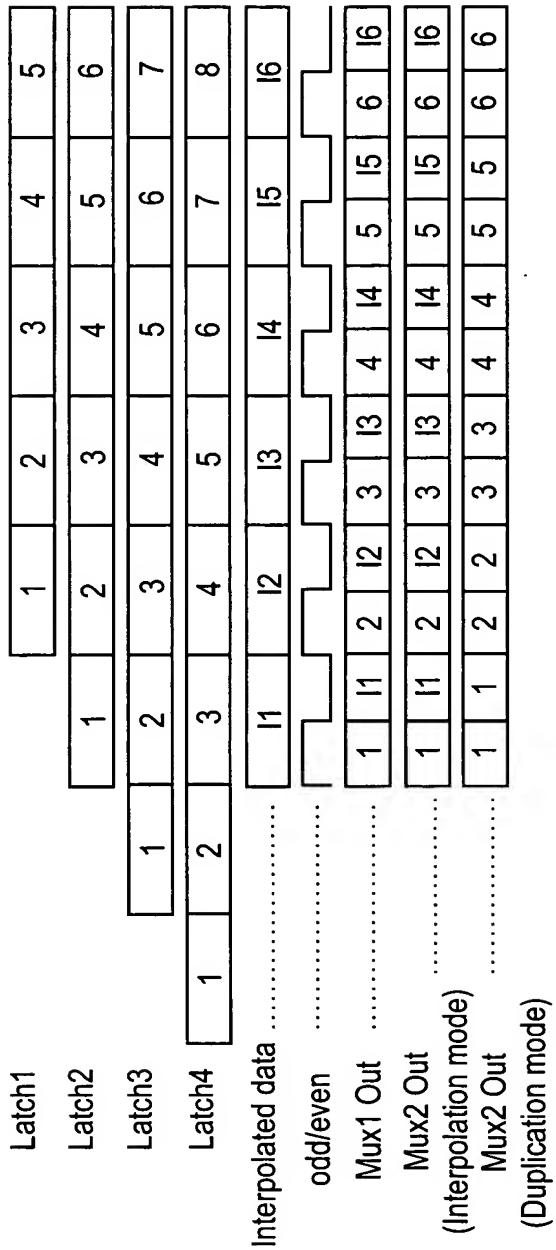


FIG. 20

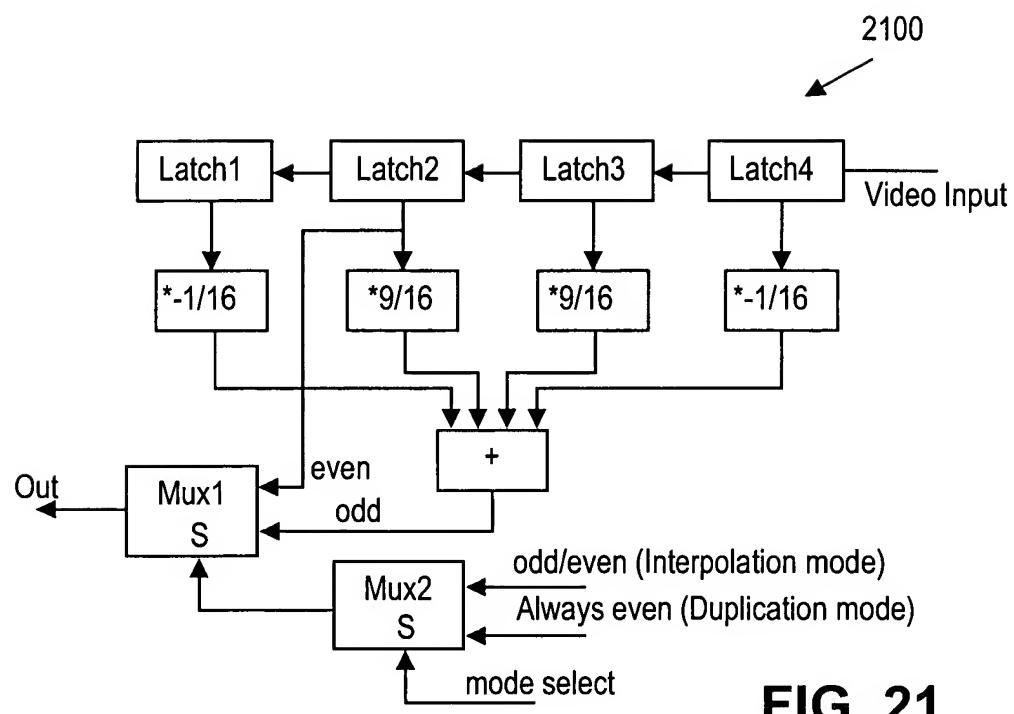


FIG. 21

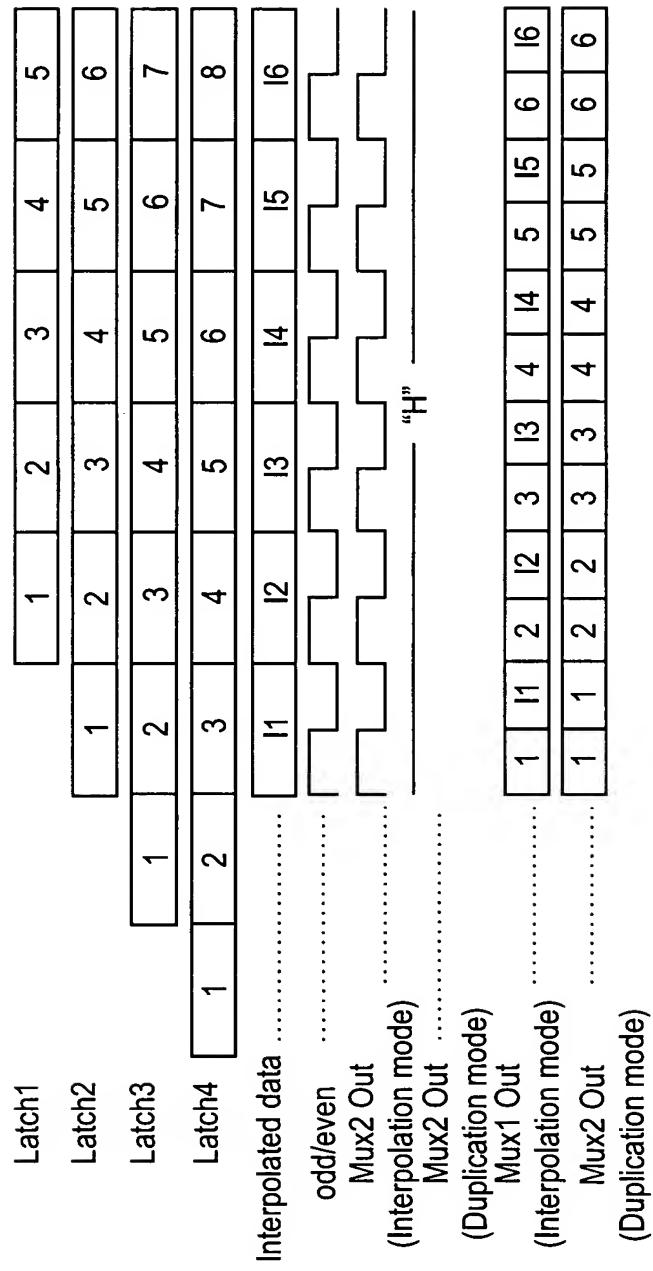


FIG. 22

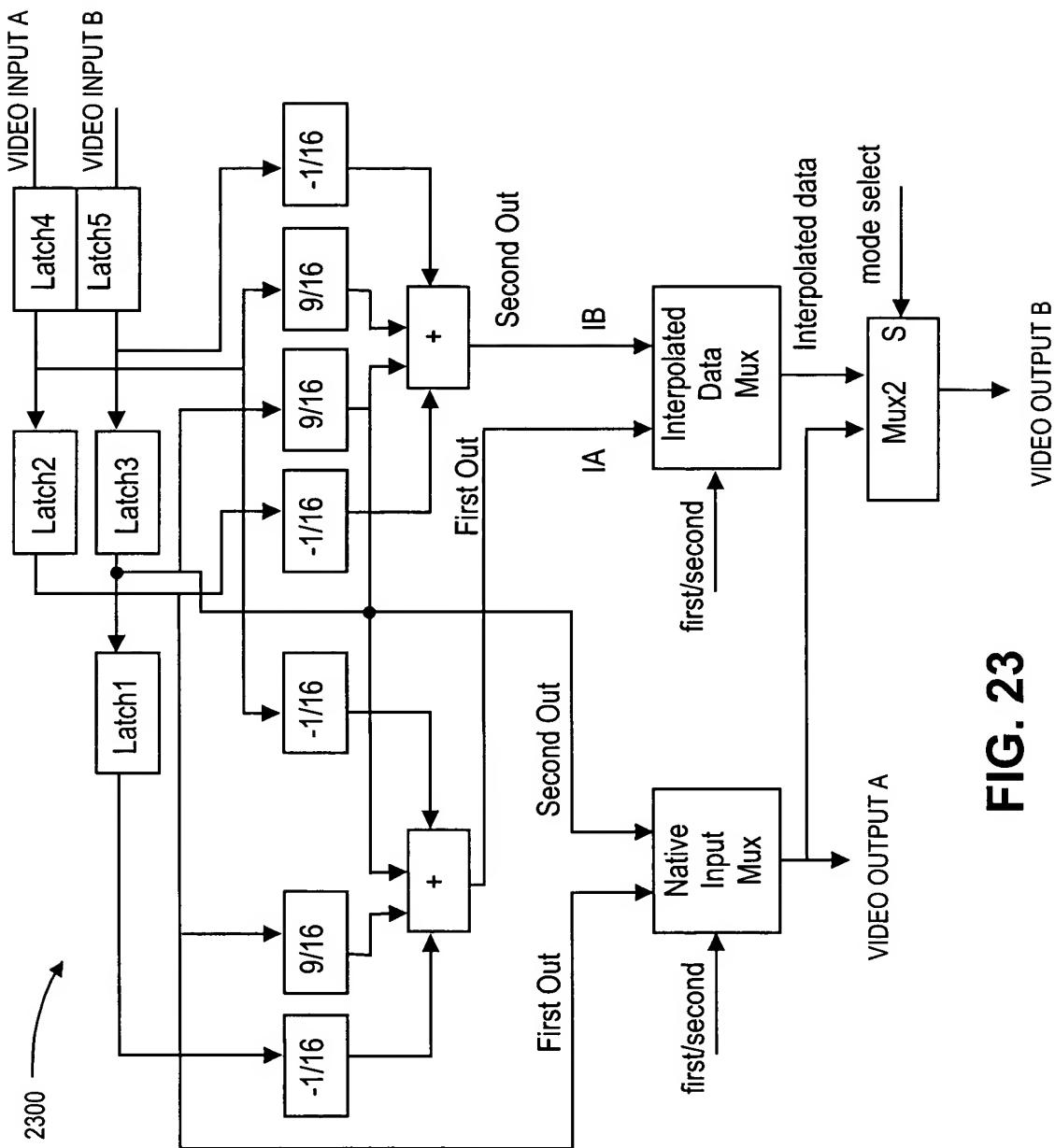


FIG. 23

Latch1	2	4	6	8	10								
Latch2	1	3	5	7	9								
Latch3	2	4	6	8	10								
Latch4	1	3	5	7	9								
Latch5	2	4	6	8	10								
IA	.....	I1	I3	I5	I7	I9	I11						
IB	.....	I2	I4	I6	I8	I10	I12						
first/second	.....											
Video Output A	.....	1	2	3	4	5	6	7	8	9	10	11	12
Interpolated data	.....	I1	I2	I3	I4	I5	I6	I7	I8	I9	I10	I11	I12
Mux2 Out	(Interpolation mode)	I1	I2	I3	I4	I5	I6	I7	I8	I9	I10	I11	I12
Mux2 Out	(Duplication mode)	1	2	3	4	5	6	7	8	9	10	11	12
At Interpolated Mode													
Video Output A	.....	1	2	3	4	5	6	7	8	9	10	11	12
Video Output B	.....	I1	I2	I3	I4	I5	I6	I7	I8	I9	I10	I11	I12
At Duplication Mode													
Video Output A	.....	1	2	3	4	5	6	7	8	9	10	11	12
Video Output B	.....	1	2	3	4	5	6	7	8	9	10	11	12

FIG. 24

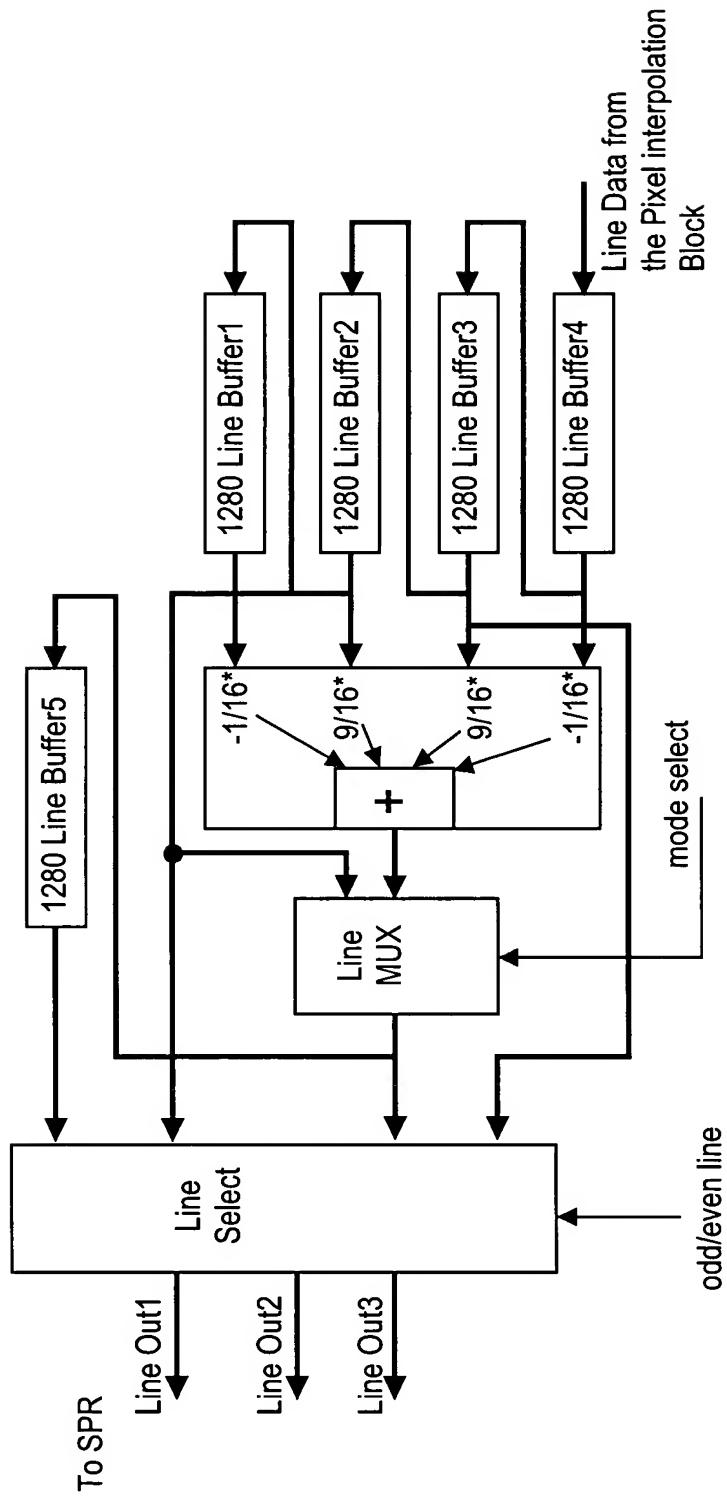


FIG. 25

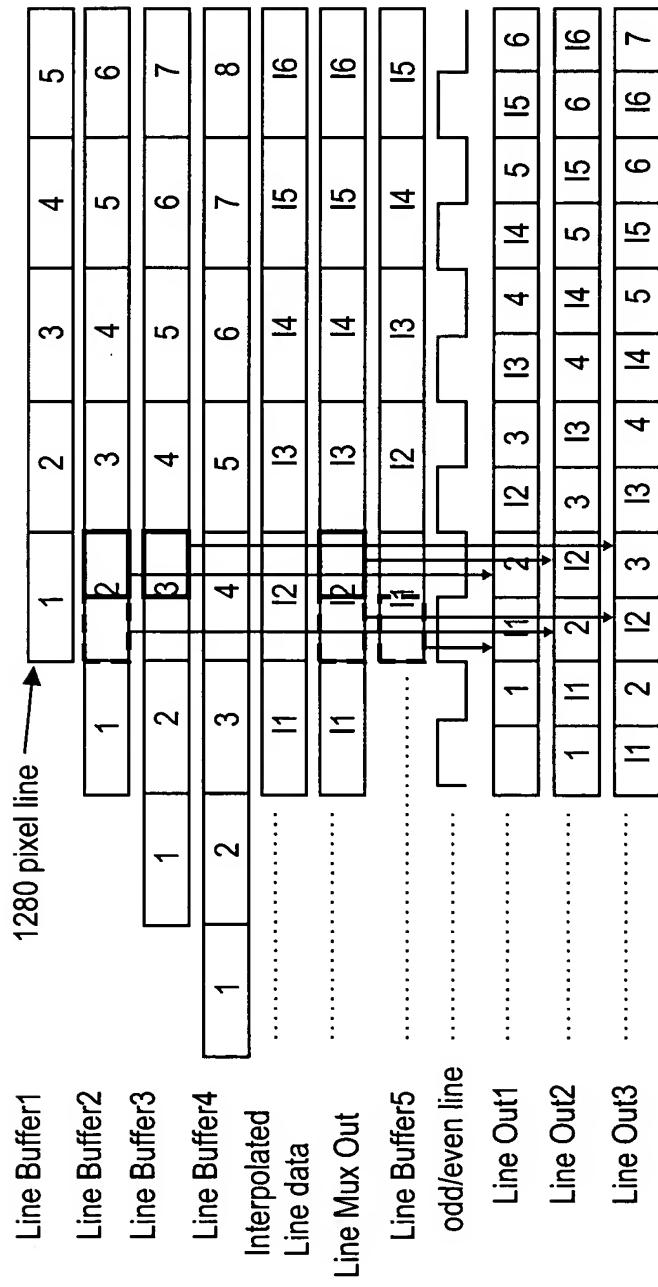


FIG. 26

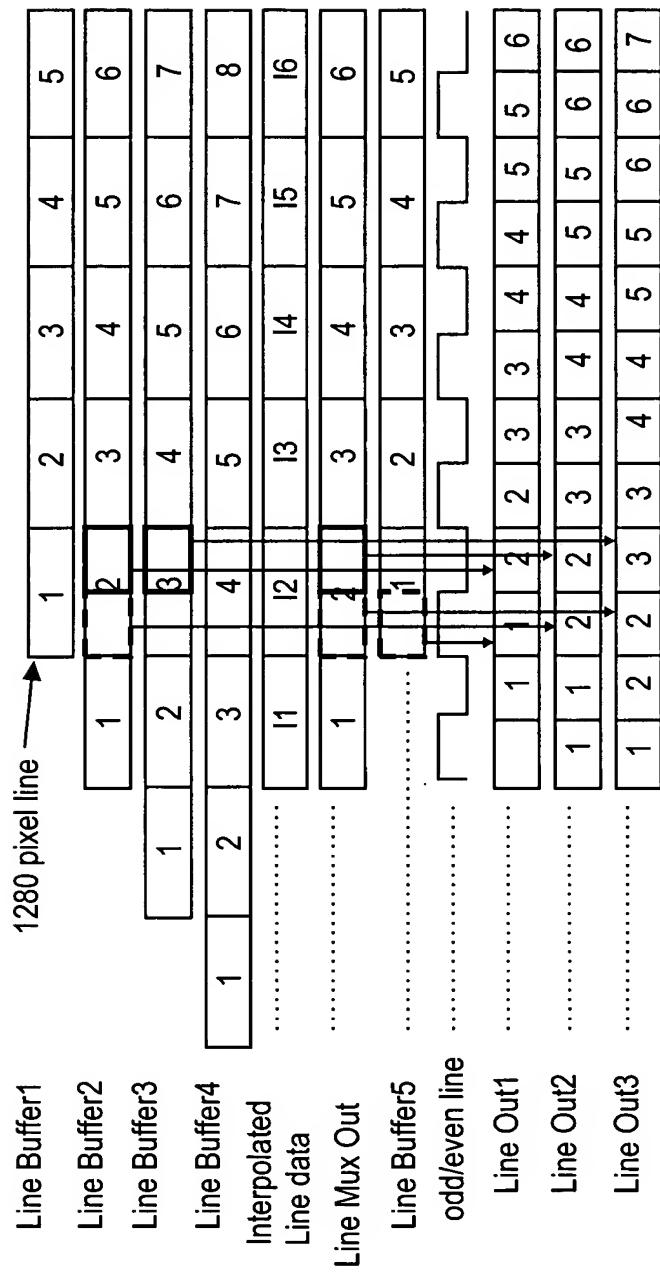


FIG. 27

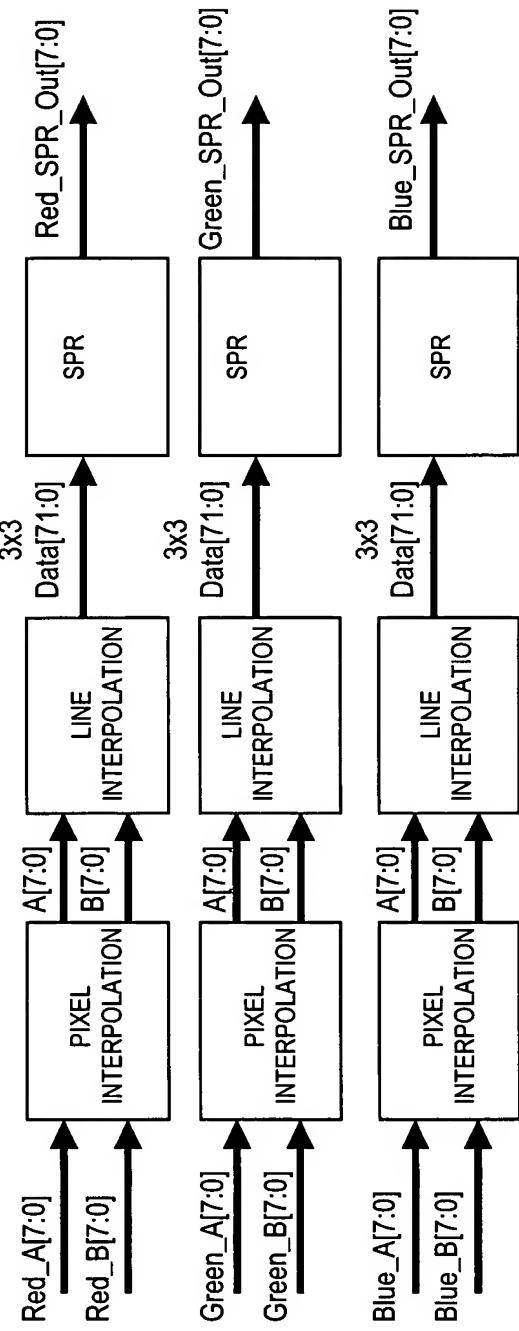


FIG. 28

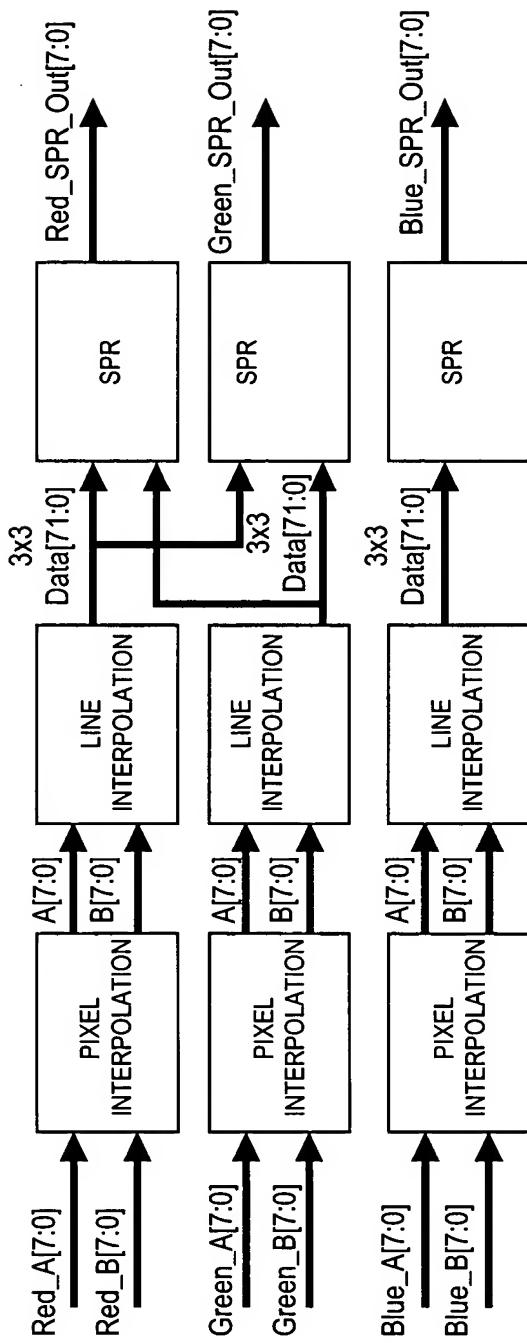


FIG. 29

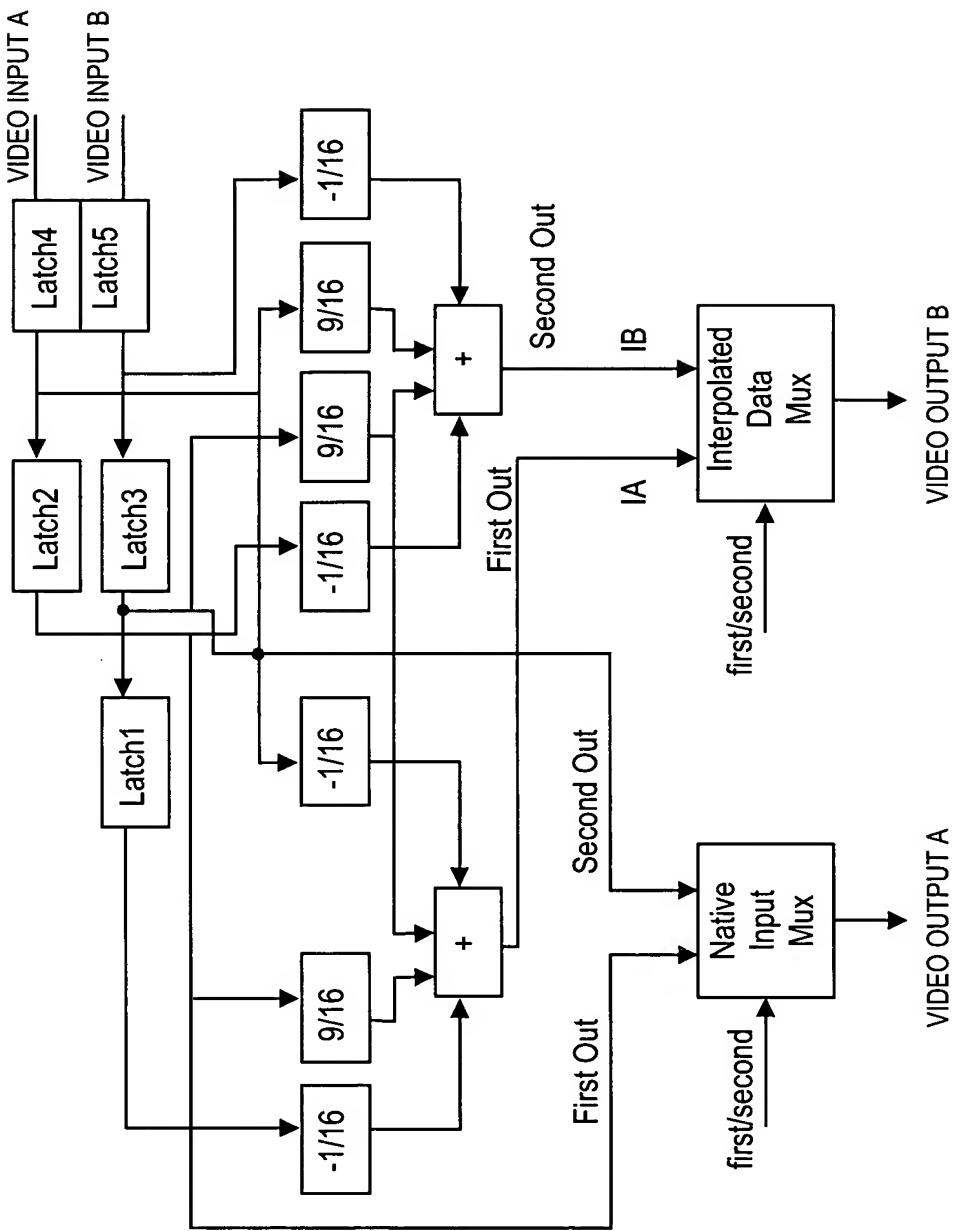
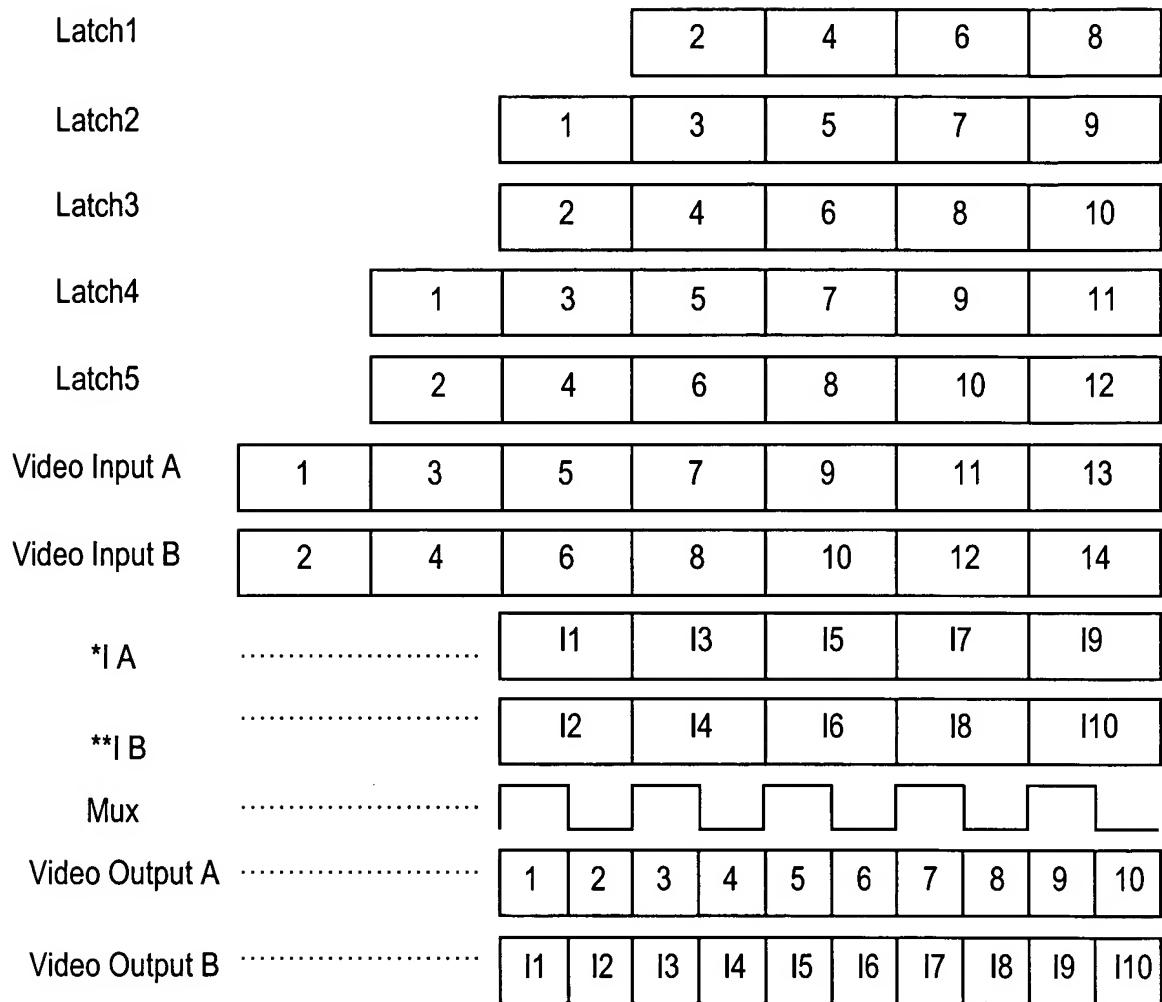


FIG. 30



$$* IA = \text{Latch1} * (-1/16) + \text{Latch2} * (9/16) + \text{Latch3} * (9/16) + \text{Latch4} * (-1/16)$$

$$** IB = \text{Latch2} * (-1/16) + \text{Latch3} * (9/16) + \text{Latch4} * (9/16) + \text{Latch5} * (-1/16)$$

FIG. 31

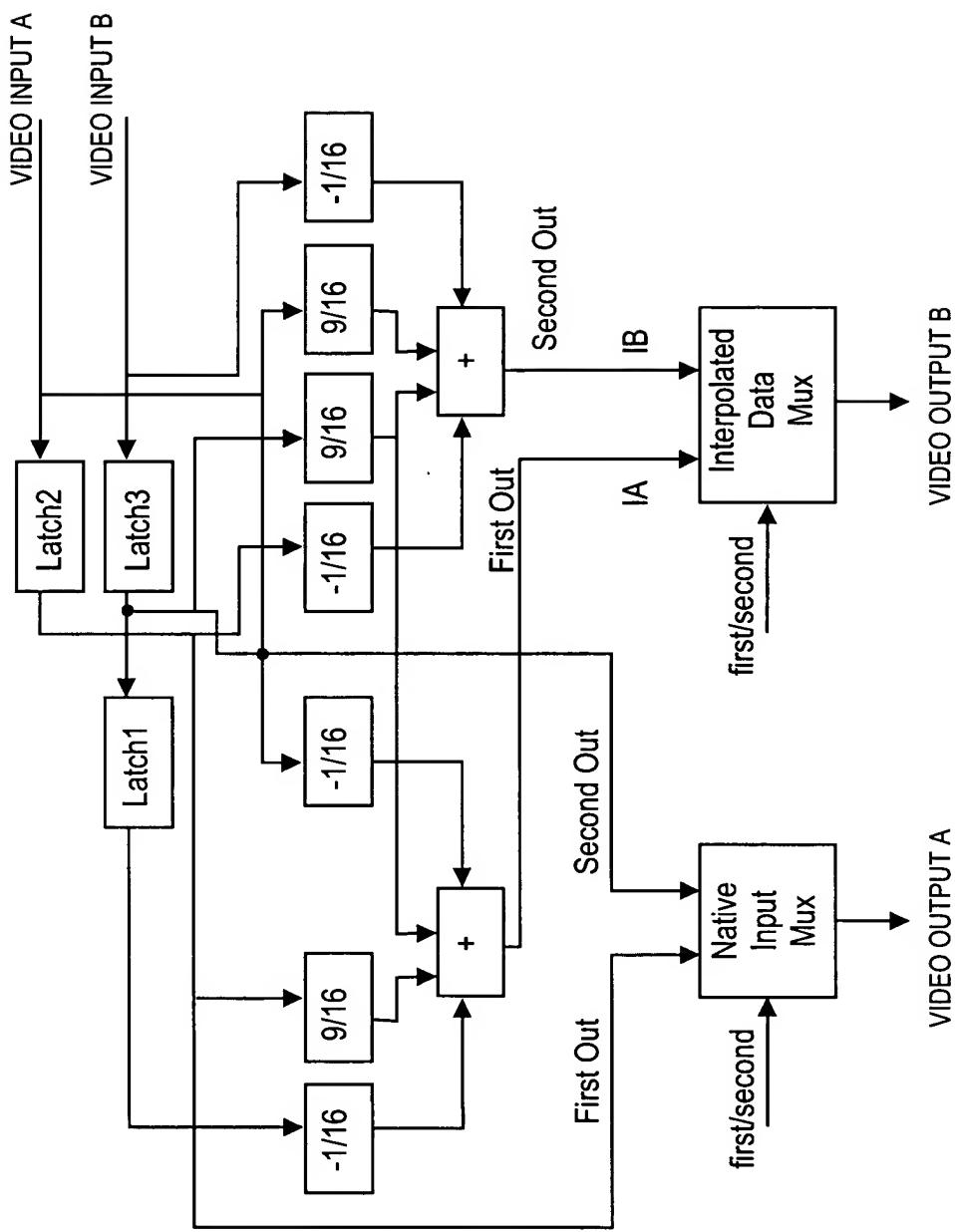
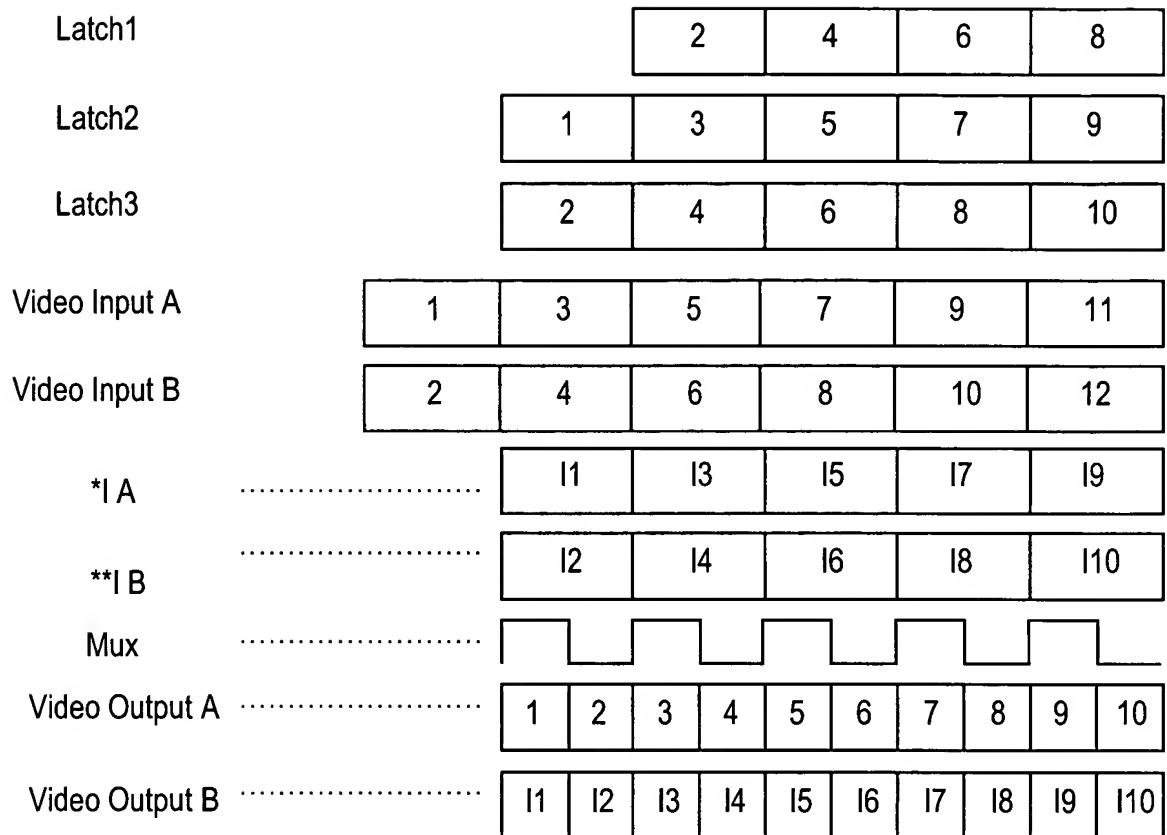


FIG. 32



$$* IA = \text{Latch1} * (-1/16) + \text{Latch2} * (9/16) + \text{Latch3} * (9/16) + \text{Video Input A} * (-1/16)$$

$$** IB = \text{Latch2} * (-1/16) + \text{Latch3} * (9/16) + \text{Video Input A} * (9/16) + \text{Video Input A} * (-1/16)$$

FIG. 33

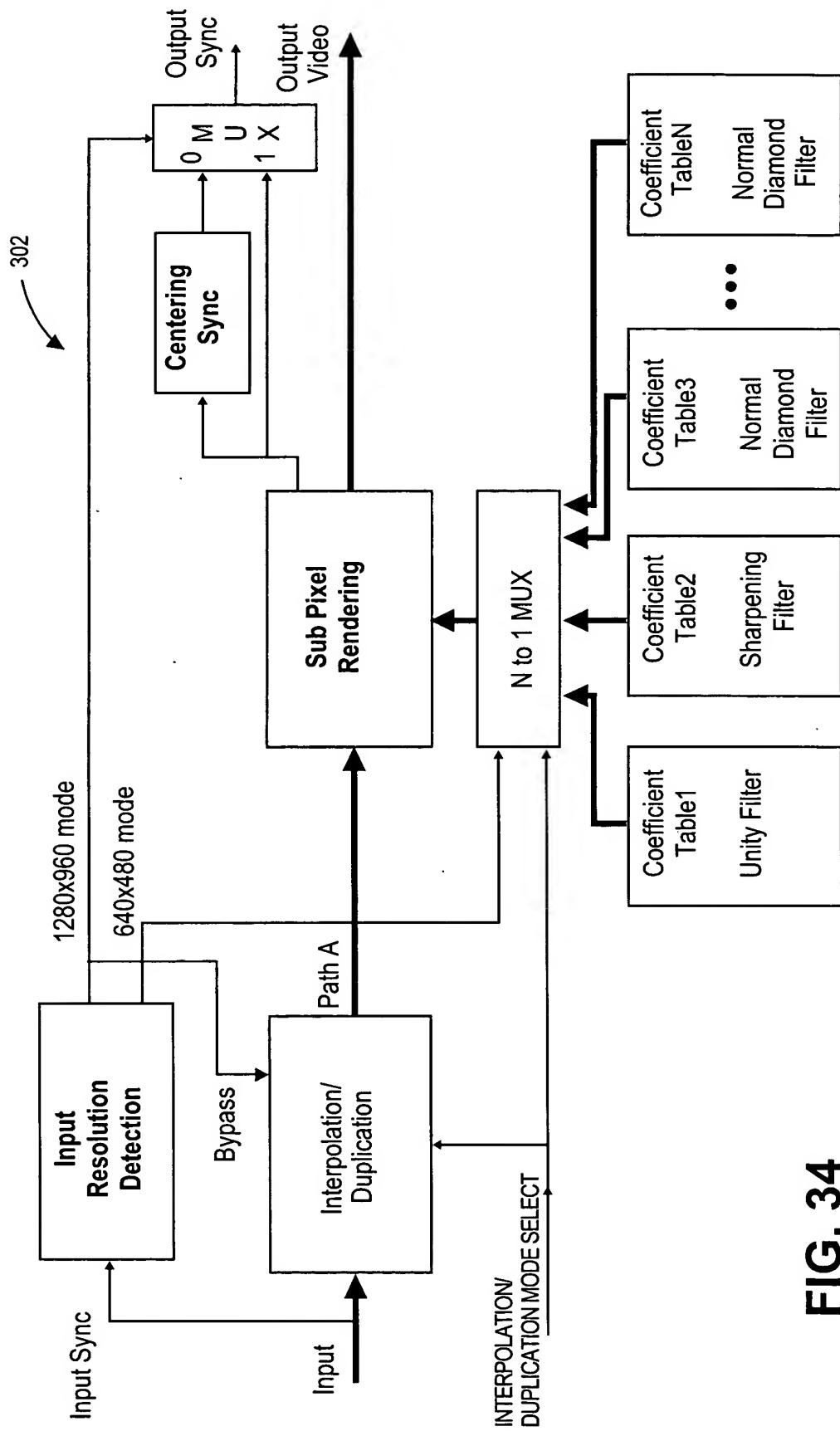


FIG. 34

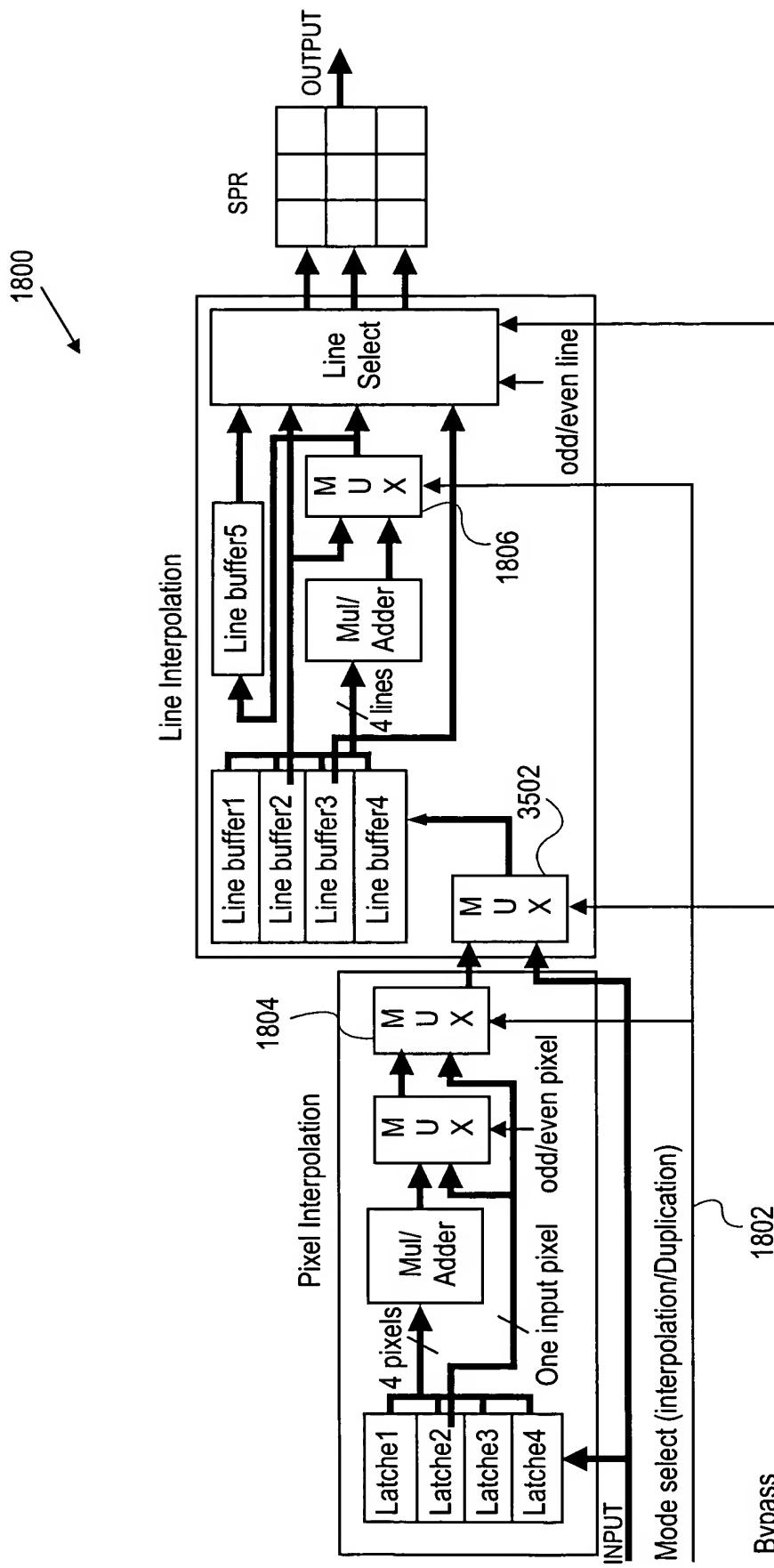


FIG. 35

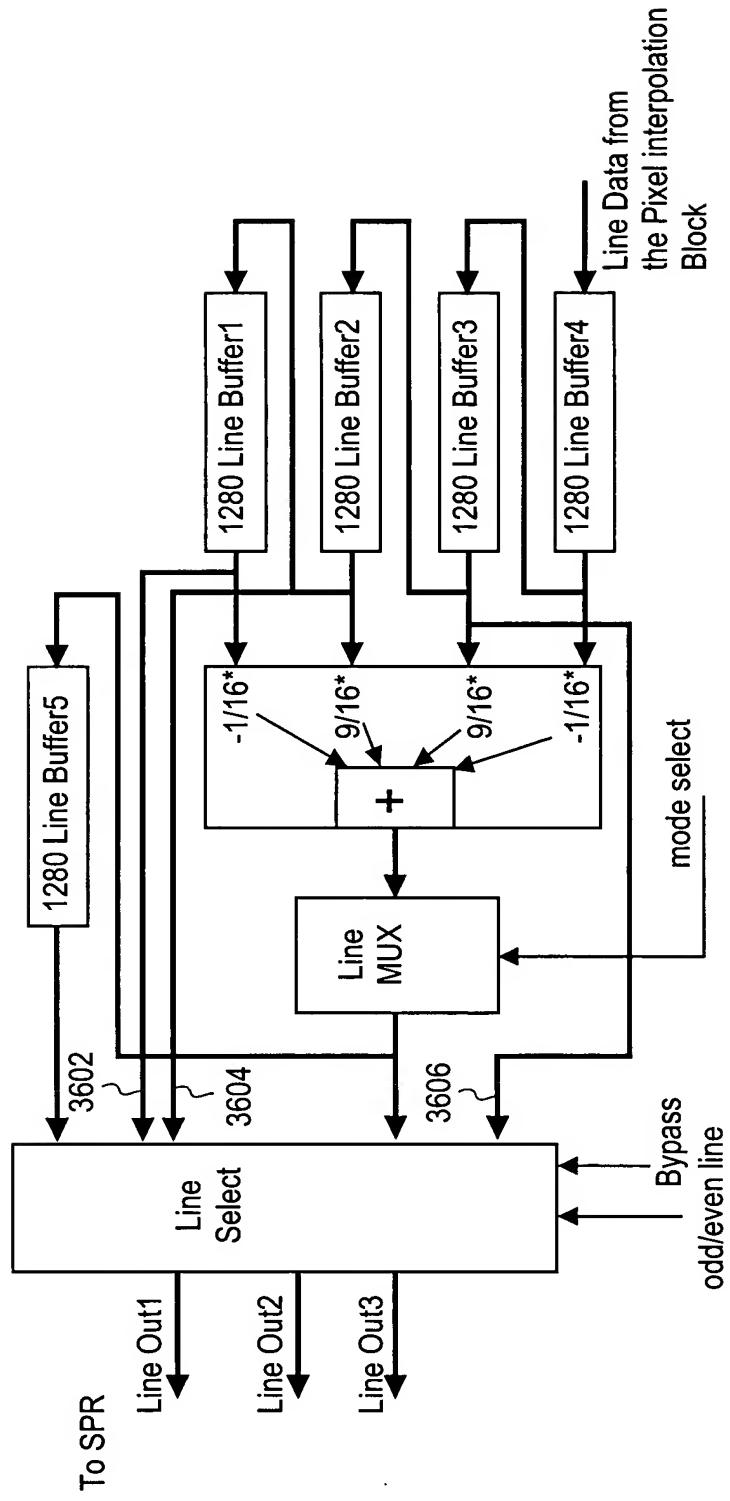


FIG. 36

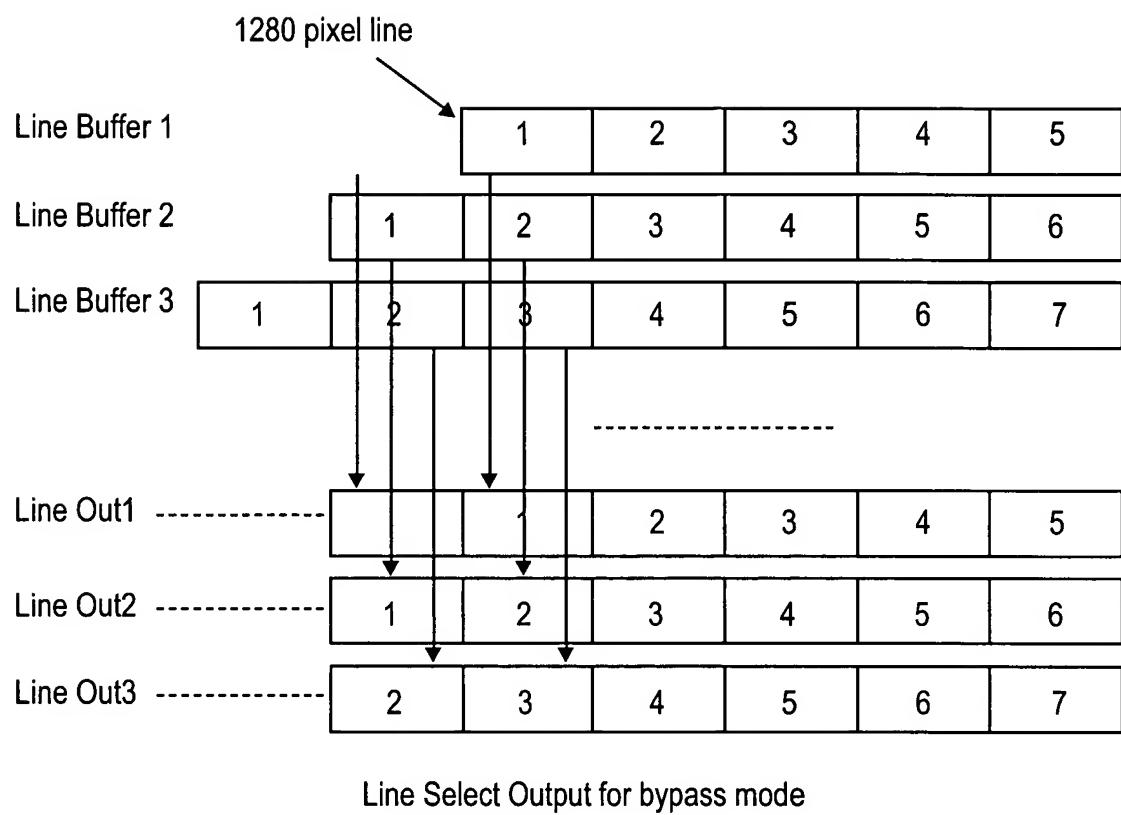


FIG. 37

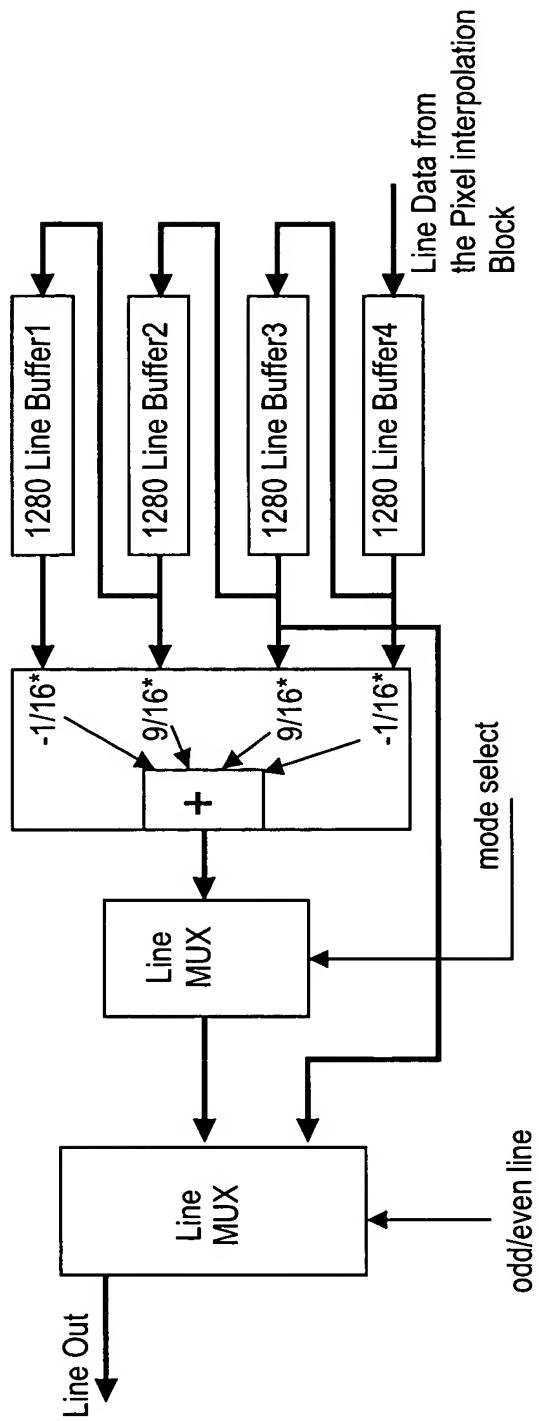


FIG. 38

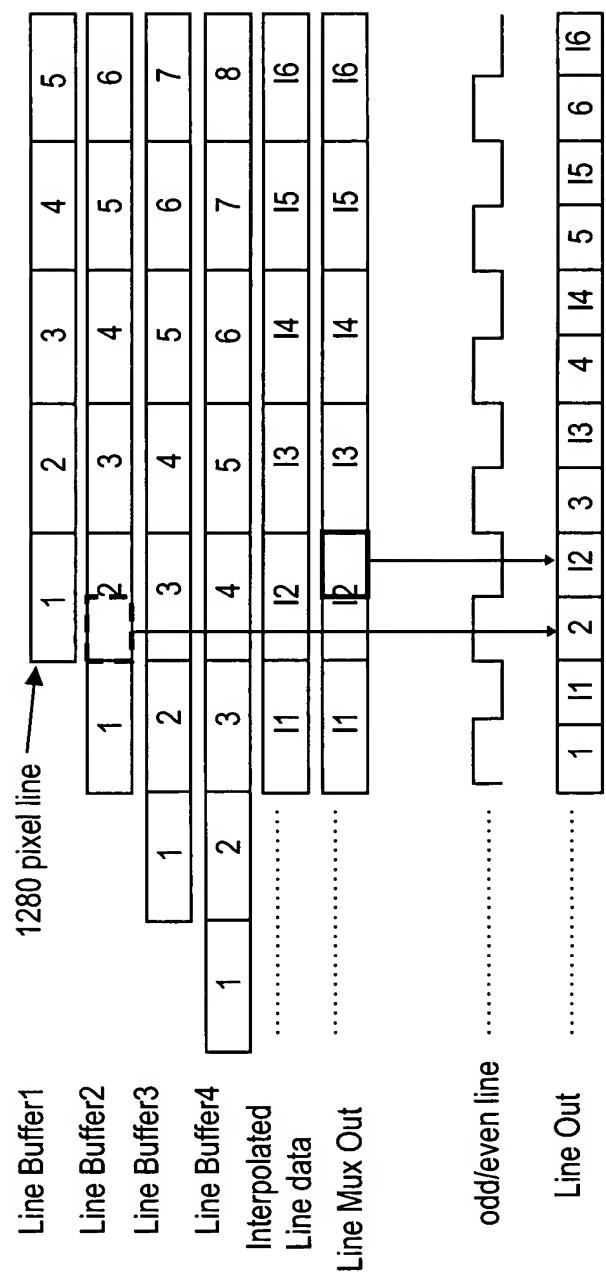


FIG. 39

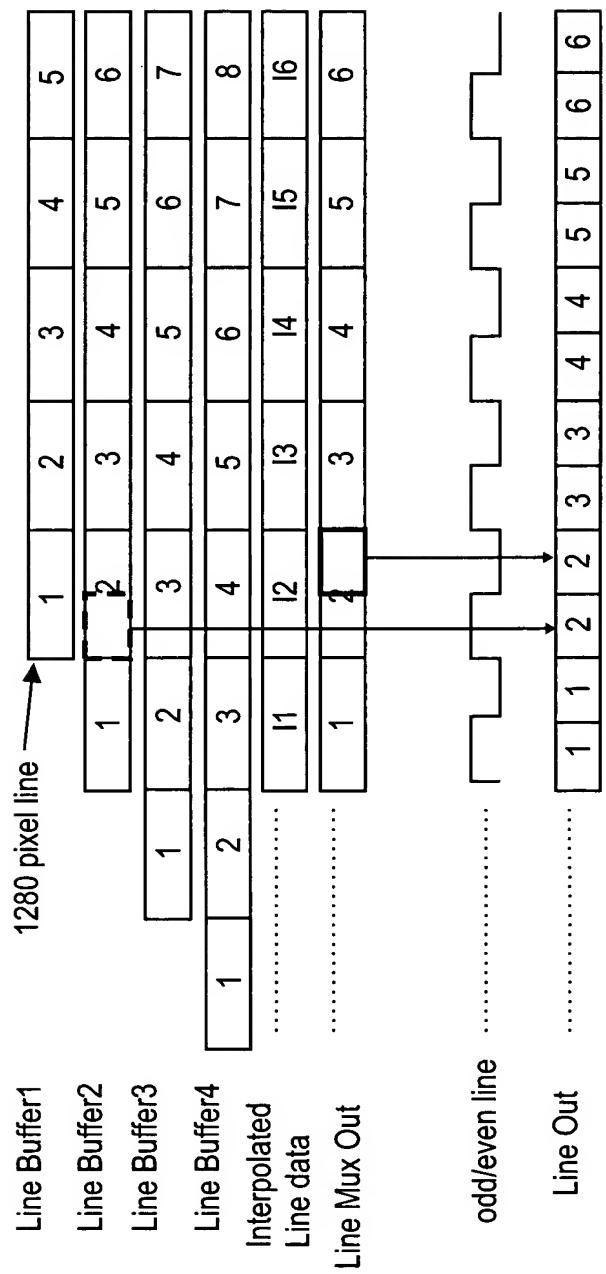


FIG. 40